



CASE STUDY:

MATRIFLO METAL CONTACT TRIAL IN MELTING FURNACE

EQUIPMENT

- 220,000 lb melting furnace

PRODUCT

- MATRIFLO 85 ACX
- MATRIFLO 93 AC

APPLICATION

- Multiple alloy aluminum melting furnace
- Operating temperature of 760°C (1450°F)

INSTALLATION

- 113,000 lbs. of MATRIFLO 93 AC was cast into half of the furnace along with the side well area
- 190,000 lbs. of MATRIFLO 85 ACX was cast into the other half of the furnace along with the side bay area
- The customer's previous lining was a low cement metal contact castable
- Historically, their lining was repaired every 12 months

RESULTS

- After 18 months, the MATRIFLO 93 AC & MATRIFLO 85 ACX lining only required minor repairs using QUICK-FIRE® 85 G
- After an additional 18 months of operation, only a minor repair was installed
- The customer is pleased with the results, and the products are now their preferred metal contact materials.



MATRIFLO 93 AC



Minor repair with QUICK-FIRE® after 18 months of operation



MATRIFLO 85 ACX after 3 years of service

Revised: 3/16/18



Allied Mineral Products, LLC supplies an entire line of monolithic refractories for the metals industry. For more information or a complete evaluation of your refractory requirements, please contact your local Allied representative.